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(See inside cover)

imagery analysis report

Construction of a Probable Second
INTELSAT Antenna at Pyongyang,
North Korea (S)

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WNINTEL

Z-12055/83

IAR-041/83

JUNE 1983

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CONSTRUCTION OF A PROBABLE SECOND INTELSAT ANTENNA AT PYONGYANG, NORTH KOREA (S)

1. Imagery of [] revealed a circular excavation, probably for the rail framework to support a second International Telecommunications Satellite Organization (INTELSAT) antenna, at Pyongyang Satellite Communications Station Oryu Ri [] 6 nautical miles west of Pyongyang (Figure 1). The circular excavation was in a cleared square area 200 meters from the INTELSAT support area and 400 meters from an already-operational INTELSAT antenna (Figure 2). No evidence of the circular excavation was observed on imagery of [] This report contains one location map and one annotated photograph. (S/WN)

2. According to open-source collateral,¹ the present, operational, 27-meter antenna was intended for use with the Indian Ocean INTELSAT satellite. On [] however, it was oriented at a [] azimuth and elevated [] toward the Pacific Ocean INTELSAT satellite. The new antenna, therefore, will probably be used with the Indian Ocean INTELSAT satellite, as reported []

3. In addition to the excavation, five high-frequency (HF) horizontal dipole antennas were identified on [] near the two entrances to the adjacent underground tunnel complex (Figure 2). The feed lines for the HF antennas and the INTELSAT antenna lead to vent shafts for the two tunnels, indicating that additional control facilities are probably underground. (S/WN)

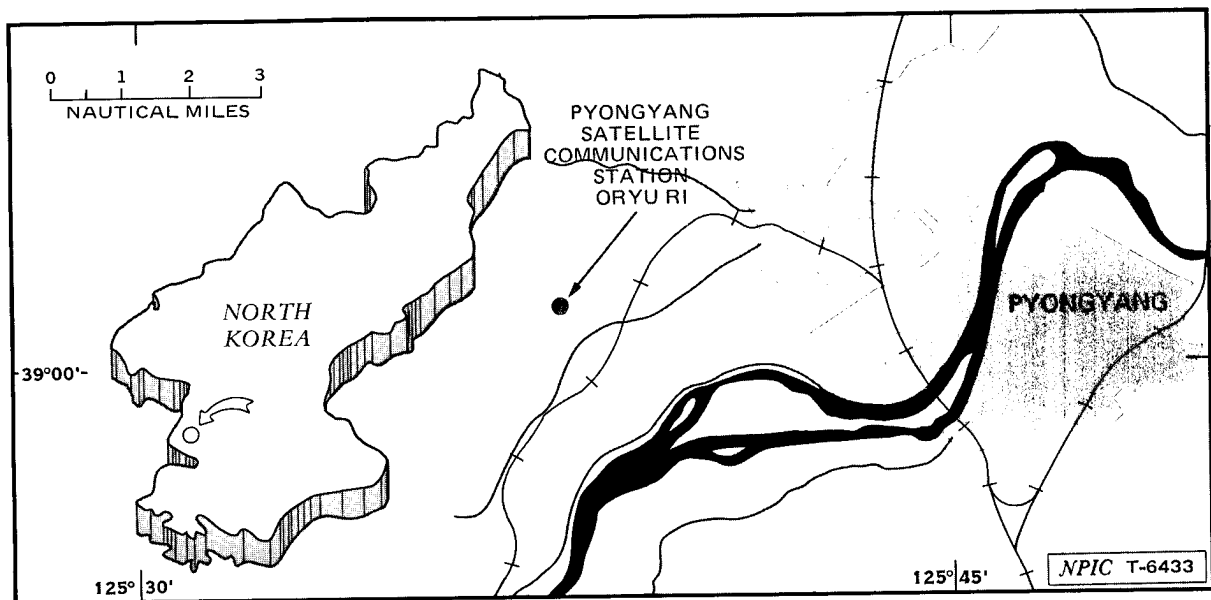


FIGURE 1. LOCATION OF PYONGYANG, NORTH KOREA

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REFERENCES

IMAGERY

All applicable satellite imagery acquired from [] was used in preparation of this report. (S/WN)

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DOCUMENTS

1. *COMSAT Guide to the INTELSAT Satellite System*, Communications Satellite Corporation, 1982. (U)
2. US Army. IIR 2 721 0108 83, *P'yongyang Satellite Ground Station (U)*, 260136Z Apr 83. (CONFIDENTIAL/NOFORN)

Comments and queries regarding this report are welcome. They may be directed to []
East Asian Forces Division, Imagery Exploitation Group, NPIC, []

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